

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) ~~Thermal~~ A thermal electromagnetic radiation detector comprising an absorbent membrane fixed in suspension onto a front face of a substrate, in a direction substantially parallel to the substrate, by support means thermally insulating the membrane from the substrate, ~~detector characterized in that~~ wherein the support means ~~comprise~~ comprise at least one alveolate structure arranged substantially perpendicularly to the front face of the substrate and to the plane of the membrane and in contact with the membrane by a limited number of bearing points.

2. (Currently Amended) A thermal electromagnetic radiation detector comprising an absorbent membrane fixed in suspension onto a front face of a substrate, in a direction substantially parallel to the substrate, by support means thermally insulating the membrane from the substrate, wherein the support means comprises at least one alveolate structure arranged substantially perpendicularly to the front face of the substrate and to the plane of the membrane, wherein ~~Detector according to claim 1, characterized in that~~ the alveolate structure is arranged between the absorbent membrane and the substrate, along one edge of the absorbent membrane.

3. (Currently Amended) A thermal electromagnetic radiation detector comprising an absorbent membrane fixed in suspension onto a front face of a substrate, in a direction substantially parallel to the substrate, by support means thermally insulating the membrane from the substrate, wherein the support means comprises at least one alveolate structure arranged substantially perpendicularly to the front face of the substrate and to the plane of the membrane, Detector according to claim 1, characterized in that wherein the support means ~~comprise~~ comprise at least one arm fixedly secured to the absorbent membrane, each

alveolate structure being respectively arranged between the corresponding arm and the substrate.

4. (Currently Amended) ~~Detector~~ The detector according to claim 3, ~~characterized in that wherein~~ the alveolate structure is in contact with an arm by a single bearing point.

5. (Currently Amended) A thermal electromagnetic radiation detector comprising an absorbent membrane fixed in suspension onto a front face of a substrate, in a direction substantially parallel to the substrate, by support means thermally insulating the membrane from the substrate, wherein the support means comprises at least one alveolate structure arranged substantially perpendicularly to the front face of the substrate and to the plane of the membrane, Detector according to claim 1, ~~characterized in that wherein~~ the alveolate structure is formed by a wall presenting a plurality of transverse apertures.

6. (Currently Amended) ~~Detector~~ The detector according to claim 5, ~~characterized in that wherein~~ the wall comprises a plurality of superposed thin layers separated by spacers.

7. (Currently Amended) ~~Detector~~ The detector according to claim 6, ~~characterized in that wherein~~ the spacers are formed by partitions perpendicular to the substrate.

8. (Currently Amended) ~~Detector~~ The detector according to claim 6, ~~characterized in that wherein~~ the spacers are formed by hollow cylinders arranged perpendicularly to the substrate.

9. (Currently Amended) ~~Detector~~ The detector according to claim 5, ~~characterized in that wherein~~ the wall comprises at least two superposed rows of arcades formed by thin layers, a first row of arcades being arranged on the front face of the substrate,

an arcade of another row being arranged on the top parts of two adjacent arcades of a lower  
~~the bottom~~ row.

10. (Currently Amended) ~~Detector~~ The detector according to claim 1,  
~~characterized in that~~ wherein the alveolate structure comprises a porous pad.

11. (New) The detector according to claim 1, wherein the alveolate structure is in  
contact with the membrane by a single bearing point.

12. (New) The detector according to claim 1, wherein the alveolate structure is in  
contact with the membrane by three bearing points.